Index of Claims

| App | lica | tion/ | Conti | ol N | 0. |
|-----|------|-------|-------|------|----|
|     |      |       |       |      |    |

Joseph R. Maniwang

Applicant(s)/Patent under Reexamination

09/840,739

PENG, LUOSHENG
Art Unit

Examiner

2144

✓ Rejected= Allowed

\_\_\_ (Through numeral) Cancelled

Restricted

N Non-Elected

Interference

A Appeal
O Objected

| Claim Date |          |          | CI       | aim                | Date      |          |          |         |          | Cl       | aim      | Date            |          |                    |         |              |                 |          |          |       |            |          |  |        |          |           |                 |                       |           |
|------------|----------|----------|----------|--------------------|-----------|----------|----------|---------|----------|----------|----------|-----------------|----------|--------------------|---------|--------------|-----------------|----------|----------|-------|------------|----------|--|--------|----------|-----------|-----------------|-----------------------|-----------|
|            | 1        | +        | .,       | T                  |           |          |          |         |          | _        | a        | П               |          |                    |         | Π            |                 |          |          |       |            |          |  | I      |          |           |                 |                       |           |
| Final      | Original | 9/1/04   | Ë        |                    |           |          |          |         |          | Final    | Original |                 |          |                    |         |              | .               |          |          | Final | Original   |          |  | 1      |          |           |                 |                       |           |
| L          | δ        | 9        | ا ھ      |                    |           |          |          |         |          | 1        | ō        |                 |          |                    |         |              | i               |          |          | u.    | ŏ          |          |  | İ      |          |           |                 |                       |           |
| -          | 1        | 7        | 7        | $\dashv$           | $\dashv$  | -        |          | +       | +        |          | 51       | +               | $\dashv$ | +                  | +       | +-           | H               | $\dashv$ | $\dashv$ |       | 101        |          | 十  | 7      |          |           | $\vdash$        | $\vdash$              | 十         |
|            | 2        | V        | V        | _                  |           | _        | $\vdash$ | $\top$  | +        |          | 52       | $\vdash$        | $\dashv$ | 十                  | $\top$  | $\vdash$     |                 |          |          |       | 102        |          | 十  | 7      | ╗        |           |                 | $\sqcap$              | $\dashv$  |
| -          | 3        | 1        | 7        | $\top$             | T         |          |          | 1       |          |          | 53       |                 | $\top$   | T                  | $\top$  | 1            |                 |          |          |       | 103        |          |  | 7      |          |           | П               | $\Box$                |           |
|            | 4        | <b>√</b> | √        |                    |           |          |          |         |          |          | 54       |                 |          |                    |         |              |                 |          |          |       | 104        |          | $\Box$   | $\Box$ |          |           |                 |                       |           |
|            | 5        | 1        | 1        |                    |           |          |          | $\perp$ |          |          | 55       |                 |          | $oldsymbol{\perp}$ | $\perp$ | $oxed{\Box}$ | Ш               |          |          |       | 105        |          | $\perp$  | 4      |          |           | Ш               | $\sqcup$              |           |
|            | 6        | 4        | 1        |                    |           |          | $\Box$   |         |          |          | 56       |                 | _        | _                  | $\perp$ | $oxed{oxed}$ |                 | $\dashv$ | _        |       | 106        |          |  | 4      | _        |           | Ш               | ${oldsymbol{\sqcup}}$ | $\perp$   |
|            | 7        | 1        | <b>√</b> | 4                  | _         | _        |          | 4       |          |          | 57       | $\vdash \vdash$ | $\dashv$ | +                  | +       | $\vdash$     | Щ               |          | -        |       | 107        |          | +  | 4      | 4        |           | Ш               | $\vdash$              | $\dashv$  |
|            | 8        | 1        | 1        | 4                  | $\dashv$  |          | $\vdash$ | +       |          | ļ        | 58       | $\vdash$        | +        | -                  |         | ╁            | $\vdash$        | $\dashv$ | -        |       | 108        |          | -  | +      |          |           | $\vdash$        | $\vdash$              | $\dashv$  |
|            | 9<br>10  | <b>√</b> | 1        | +                  | $\dashv$  | -        |          | +       | +        |          | 59<br>60 | -               | ┽        | +                  | ╫       | -            | -               | $\dashv$ | ╣        |       | 109<br>110 | -+       | +  | +      | $\dashv$ |           | $\vdash$        | $\vdash$              | $\dashv$  |
|            | 11       | 1        | √.       | $\dashv$           | -+        | -        | +        | +       | +-       | <u> </u> | 61       | -               | $\dashv$ | +                  | +       | -            | Н               |          | -        | -     | 111        | $\dashv$ | +  | +      | $\dashv$ |           | Н               | $\vdash$              | $\dashv$  |
| -          | 12       | 7        | i        | $\dashv$           | -+        |          | $\vdash$ | +       | +        |          | 62       |                 | $\dashv$ | $\top$             | +       | $\dagger$    |                 | $\neg$   | -        |       | 112        | $\neg$   | +  | +      |          |           | П               | $\Box$                | $\dashv$  |
|            | 13       | 7        | 1        | 7                  | $\dashv$  | _        |          | $\top$  | +-       |          | 63       |                 | $\top$   | 十                  | $\top$  | $\dagger$    | Н               |          | _        |       | 113        | - t      | 1  | 7      |          |           | П               | $\Box$                | ヿ         |
|            | 14       | 1        | 1        | 寸                  | 寸         |          |          | $\top$  | 十        | _        | 64       | $\Box$          | $\dashv$ | _                  | $\top$  | 1            |                 |          |          |       | 114        |          |  | 1      |          |           |                 | П                     | $\exists$ |
|            | 15       | 1        | 1        |                    |           |          |          |         |          |          | 65       |                 |          |                    |         |              |                 |          |          |       | 115        |          |  | $\Box$ |          |           |                 |                       | $\Box$    |
|            | 16       | 1        | 1        |                    |           |          |          |         |          |          | 66       |                 |          |                    |         |              |                 |          | $\Box$   |       | 116        |          | $oldsymbol{ol}}}}}}}}}}}}}}}}}}$ |        |          |           | Ш               |                       |           |
|            | 17       | 4        | 1        |                    |           |          |          |         |          |          | 67       | Ш               |          |                    | $\perp$ |              | Ш               |          | _        |       | 117        |          |  | 4      | _        |           |                 | $\sqcup$              | _         |
| <u></u>    | 18       | 1        | <b>√</b> | $\dashv$           |           |          | $\perp$  | _       | _        |          | 68       | $\sqcup$        | _        | $\bot$             | 1       | <u> </u>     | Ш               | _        | _        |       | 118        |          | $\perp$  | 4      | 4        |           |                 | $\vdash$              | $\dashv$  |
| <u> </u>   | 19       | 4        | 1        | _                  | _         | _        |          | +       |          | <u> </u> | 69       |                 | 4        | -                  | 4       | Ļ.           | Ш               | _        |          |       | 119        |          | 4-   | 4      | _        | _         | Н               | $\vdash$              | $\dashv$  |
| -          | 20       | 1        | 1        | -+                 | -         | _        | -        |         |          | -        | 70       | -               | +        | +                  | ╀       | ╁            | H               |          |          |       | 120        | -        | -  | +      | $\dashv$ | _         | $\vdash \vdash$ | $\vdash$              | $\dashv$  |
| -          | 21       | 1        | 1        | $\dashv$           | $\dashv$  | -        |          | +       | +        |          | 71<br>72 | $\vdash$        | +        | +                  | +-      | ┼            | Н               | _        | $\dashv$ |       | 121<br>122 | -        | +  | +      | $\dashv$ | -         | $\vdash \vdash$ | ┢                     | $\dashv$  |
|            | 23       | 1        | Ť        | +                  | $\dashv$  | -        | -+       | +       |          |          | 73       |                 | +        | +                  | +       | <del> </del> | Н               | $\dashv$ | $\dashv$ |       | 123        | $\dashv$ | +  | +      | $\dashv$ |           |                 | $\vdash$              | $\dashv$  |
|            | 24       | 1        | i        | $\dashv$           | $\dashv$  | -        | -+       | +       | +        |          | 74       |                 | +        | +                  | +       | +            | H               |          | $\dashv$ |       | 124        | +        | ╅  | ╅      | -        |           | $\dashv$        | $\vdash$              | $\dashv$  |
|            | 25       |          | _        | $\dashv$           | $\dashv$  | _        | $\vdash$ | +       | +        |          | 75       |                 | 十        | $\top$             | ╅       | T            |                 |          | $\dashv$ |       | 125        |          | $\top$   | 7      | 一        |           | 一               |                       | $\dashv$  |
| <b>-</b>   | 26       |          |          | 7                  | T         |          | $\top$   | Ť       | 1        |          | 76       |                 | 寸        | T                  | 1       | 1            | П               |          | $\neg$   |       | 126        | T        | $\top$   | 寸      | $\neg$   |           |                 |                       | $\neg$    |
|            | 27       |          |          |                    | $\Box$    |          |          |         |          |          | 77       |                 |          |                    |         |              |                 |          |          |       | 127        |          |  |        |          |           |                 |                       | $\Box$    |
|            | 28       |          |          | $\Box$             |           |          |          |         |          |          | 78       |                 |          |                    | L       |              |                 |          |          |       | 128        |          | $\perp$  | 4      | _        |           | Ш               | $\sqcup$              | _         |
| L          | 29       |          | _        | $\dashv$           | _         |          | $\perp$  | $\perp$ |          |          | 79       | Ш               | _        | _                  | ┸       | <u> </u>     | Ш               |          |          |       | 129        | $\perp$  | 4  | 4      | _        |           | Ш               | $\vdash$              | $\dashv$  |
| ļ          | 30       |          | _        | _                  | $\dashv$  | _        |          | $\perp$ | 1        |          | 80       |                 | _        | _                  | _       | 1            |                 | $\dashv$ |          |       | 130        | $\dashv$ | +  | 4      |          | _         | Ш               | $\vdash$              | $\dashv$  |
|            | 31       | 4        | -        | +                  | -         | -        |          | +       | $\perp$  |          | 81       | $\vdash$        | -        |                    | +       | ₩.           | Ľ               | $\dashv$ | $\dashv$ |       | 131        | -        | +  | +      | -        | _         | $\vdash$        | $\vdash$              | $\dashv$  |
| <b></b>    | 32<br>33 | $\dashv$ | $\dashv$ | +                  | +         |          |          | +       | +        | <u> </u> | 82<br>83 | -               | +        | +                  | +       | ╁            |                 |          | $\dashv$ |       | 132<br>133 |          | ╬  | +      | $\dashv$ | -         | $\vdash\vdash$  | $\vdash$              | +         |
| -          | 34       | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$  | -        | +        | +       | +        | <u> </u> | 84       | $\vdash$        | $\dashv$ | ╁                  | +       | 1-           | -               |          | -        |       | 134        | +        | +  | +      | $\dashv$ | $\dashv$  | $\vdash$        | $\vdash \vdash$       | +         |
|            | 35       | $\dashv$ | $\dashv$ | $\dashv$           | $\dagger$ |          | $\dashv$ | +       | +        |          | 85       | $\vdash \vdash$ | $\dashv$ | +                  | +       | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ |       | 135        | $\dashv$ | +  | +      | $\dashv$ | $\exists$ | $\sqcap$        | $\vdash \vdash$       | $\dashv$  |
|            | 36       |          | 1        | 寸                  | $\dashv$  | $\dashv$ | $\vdash$ | +       | $\top$   |          | 86       |                 | 十        | 十                  | $\top$  | П            | Н               | $\dashv$ | $\dashv$ |       | 136        | $\dashv$ | $\top$   | $\top$ |          |           | -               |                       | 十         |
|            | 37       |          |          | 丁                  | 丁         |          |          | $\top$  | $\Box$   |          | 87       |                 | 丁        | 十                  | 1       | П            |                 | $\neg$   |          |       | 137        | _        | ╛  | _      | ╗        |           |                 | $\Box^{\dagger}$      | _         |
|            | 38       |          |          |                    |           |          |          |         |          |          | 88       |                 | $\Box$   |                    |         |              |                 |          |          |       | 138        |          |  | I      |          |           |                 |                       | $\Box$    |
|            | 39       | $\Box$   | $\Box$   | $oldsymbol{\perp}$ | $\bot$    | $\Box$   |          |         | <u> </u> |          | 89       | $\Box$          | $\perp$  | $\perp$            |         | $\perp$      | Ш               | $\Box$   |          |       | 139        |          | $\perp$  | 1      | [        |           | Ш               | $\Box$                |           |
| <u> </u>   | 40       | _        | _        | _                  | 4         | _        | _        | $\perp$ | $\bot$   |          | 90       |                 | _        | 4                  | 4       | <u> </u>     |                 | _        | _        |       | 140        | $\perp$  | $\bot$   | 4      | _        | _         | Ш               | igspace               | $\dashv$  |
|            | 41       | _        | 4        | 4                  | 4         | _        | $\perp$  | $\bot$  | $\dashv$ |          | 91       | $\vdash \vdash$ | +        | 4                  | 1       | 1            | Щ               | _        | 4        |       | 141        | $\dashv$ | +  | +      | _        | _         |                 | $\vdash \vdash$       | $\dashv$  |
| $\vdash$   | 42       |          | -        | $\perp$            | 4         | -        | +        | +       | +        | <u> </u> | 92       | $\vdash \vdash$ | +        | +                  | +       | -            | $\dashv$        | -        | -        |       | 142        | +        | +  | +      | -        | _         | $\vdash$        | $\vdash$              | +         |
| <u> </u>   | 43       |          | $\dashv$ | +                  | +         | $\dashv$ | +        |         | +        |          | 93<br>94 | $\vdash \vdash$ | $\dashv$ | +                  | +-      | $\vdash$     | $\vdash \vdash$ | $\dashv$ |          |       | 143<br>144 | +        | +  | +      |          |           | $\vdash \vdash$ | $\vdash$              | +         |
| -          | 44<br>45 | $\dashv$ | $\dashv$ | +                  | +         | $\dashv$ | $\vdash$ | +       | +        |          | 95       | $\vdash$        | +        | +                  | +       | $\vdash$     | $\vdash$        | $\dashv$ | $\dashv$ |       | 145        | $\dashv$ | +  | ╅      | $\dashv$ | $\dashv$  |                 | $\vdash$              | +         |
|            | 46       | $\dashv$ | $\dashv$ | $\dashv$           | $\dashv$  | $\dashv$ | $\dashv$ | +       | +        |          | 96       | $\dashv$        | +        | +                  | +       | $\vdash$     | $\vdash \vdash$ | $\dashv$ | -        |       | 146        | $\dashv$ | +  | +      | $\dashv$ |           | $\vdash$        | $\vdash$              | $\dashv$  |
| <u> </u>   | 47       | $\dashv$ | +        | $\dashv$           | $\forall$ | $\dashv$ | $\dashv$ | +       | +        |          | 97       | $\dashv$        | +        | +                  | +       |              | $\vdash \vdash$ | -        | $\dashv$ |       | 147        | $\top$   | +  | +      | $\dashv$ | $\neg$    | $\sqcap$        | $\vdash$              | 十         |
| <u> </u>   | 48       | 一        | 寸        | 十                  | ヿ         | $\dashv$ |          | $\top$  | $\top$   |          | 98       | $\vdash$        | T        | $\top$             | $\top$  |              | $\vdash$        | 寸        |          |       | 148        | 十        | 十  | $\top$ | 7        |           | $\sqcap$        | $\sqcap$              | 十         |
|            | 49       |          | ゴ        | 丁                  | _†        |          |          | 丁       |          |          | 99       |                 | 丁        |                    | I       |              |                 | ╛        |          |       | 149        |          |  | I      | ╛        |           |                 |                       | J         |
|            | 50       |          |          | Ι                  | $\Box$    |          | $\Box T$ | Ι       |          |          | 100      |                 | T        |                    | $\top$  |              |                 |          |          |       | 150        |          |  | Ι      |          |           |                 | $\Box$                |           |